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# Celebrating 50 Years of Veterinary Excellence at New Bolton Center

# Bellwether

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*Celebrating 50 Years of  
Veterinary Excellence  
at New Bolton Center*



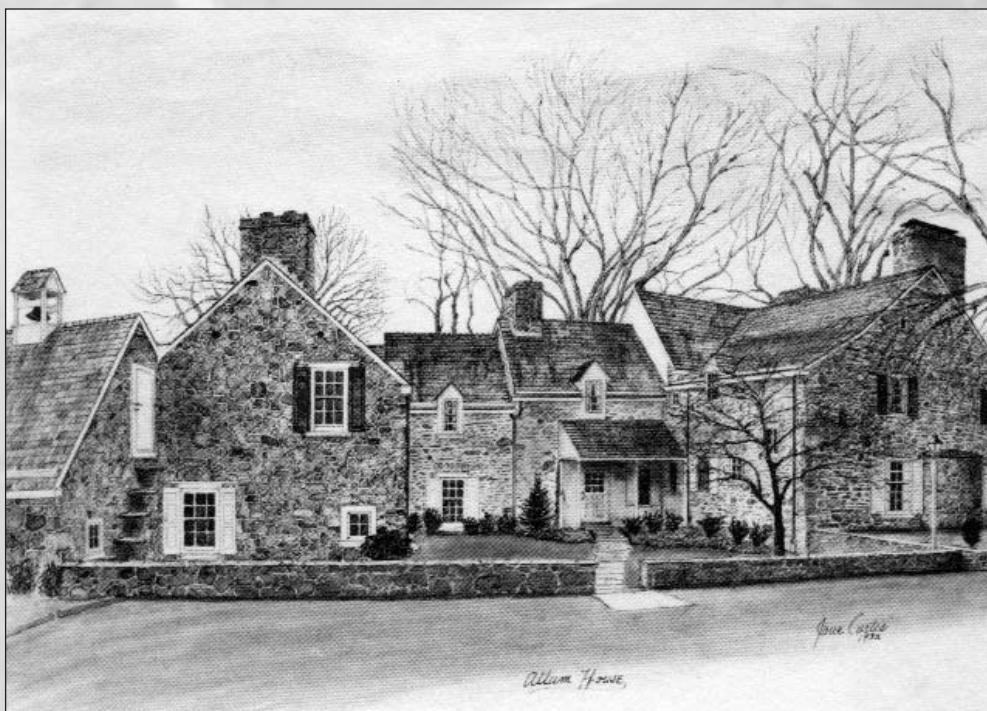
**Bolton Farm** was comprised of 469 acres in Falsington, Bucks County. The farm with its Guernsey herd was bequeathed to the University by **Effingham B. Morris** upon his death in 1937. The farm was used for research by the School of Veterinary Medicine, the School of Medicine, and the Department of Biology. In 1952, when the area surrounding the farm was developed as Levittown and Fairless Hills, the University sold the property.



**T**he University looks for a property in Chester County to relocate the farm and dairy herd. Early in 1952, during Dr. Raymond Kelser's deanship, the 220-acre South Brook Farm is purchased from C.A. Higgins, president of the Hercules Powder Company. The main house, parts of which date back to the early 18th century, had been renovated and enlarged by R. Brognard Oakie, a noted restoration architect. The entire South Brook Farm building complex is listed on the National Register of Historic Places.

In a news release of May 19, 1952, the University states that the farm "will be used primarily for the clinical training of senior veterinary students and for the conduct of scientific research, in particular the investigation of diseases with which farm animals are afflicted."

During the summer of 1952, the farm operation moves from Bucks County to Chester County. Over the years more land is acquired and today New Bolton Center encompasses 687 acres.



The manor house at **South Book Farm**. In the early days of New Bolton Center, it serves as a dormitory for students, offices for faculty, and a library. It is the heart of the new campus.

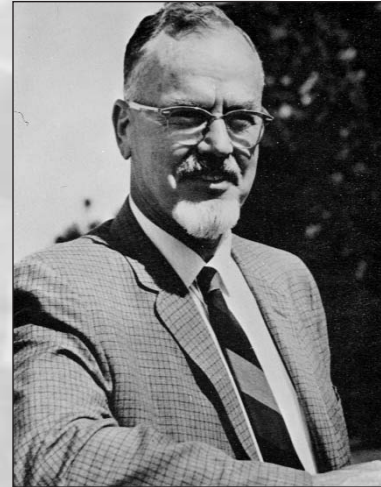
**Dean Raymond Kelser**  
who dies in April 1952.



**Dr. Mark W. Allam, V'32**, is appointed acting dean upon Dr. Kelser's sudden death.



Two cement block buildings are constructed, near the barn. The 5,000 square foot space accommodates an exam room, surgery, recovery stall, pharmacy, diagnostic laboratory, and four research laboratories. The buildings are still in use by the **Center for Animal Health and Productivity**.



In 1953, the School's Field Service, supervised by **Dr. William Boucher, V'40**, re-locates from Media to the Chester County farm. That same year the School creates a

Department of Medicine and Hygiene based at New Bolton Center. The poultry diagnostic laboratory opens under the direction of Dr. George Sperling.

KENNETT SQUARE PA., FRIDAY, JANUARY 9, 1953

### Officials Open New Poultry Laboratory

Dr. F. G. Sperling (in white coat), director of the diagnostic laboratory at the University of Pennsylvania School of Veterinary Medicine's New Bolton Center near Kennett Square, is shown examining poultry brought in to the laboratory as it opened last week. The lab is the first of four to be established in Pennsylvania. In the left foreground is Miles Horst, Pennsylvania State Secretary of Agriculture; background, left to right, are Dr. E. L. Stubbs, professor of veterinary pathology at Penn; George Anthony of Straoustown, president of the State Poultry Federation, which is financially backing the laboratory program in the state; Dr. P. H. Seitz, head of the Bureau of Animal Industry's laboratory in Harrisburg; and Harry Sloat, associate county agent of Lancaster County.

(KN&A 1-Minute Polaroid Photo)

## THE DEDICATION OF New Bolton Center

Saturday, October 16, 1954

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### PARTICIPANTS

EDWARD G. HARRIS, *Chaplain*  
 MARK W. ALLAM, *Dean, School of Veterinary Medicine*  
 GAYLORD P. HARNWELL, *President*  
 NORMAN WOOD, *House of Representatives,  
Commonwealth of Pennsylvania*  
 LYMAN E. JACKSON, *Dean, School of Agriculture,  
Pennsylvania State University*  
 WILLIAM S. HAGAR, *Acting Secretary of Agriculture,  
Commonwealth of Pennsylvania*  
 LEROY E. CHAPMAN, *Senate, Commonwealth of Pennsylvania*  
 JOSEPH HALLOWELL, *President, Pennsylvania Council  
of Farm Organizations*  
 JAMES WILEY, *President, Pennsylvania State Poultry Federation*  
 VENOR A. MARTIN, *Pennsylvania Department of Education*  
 JOHN R. HIGHLEY, *Master, Brandywine Grange No. 60*

THE OXFORD AREA JOINT SCHOOL BAND



On September 26, 1961, ground breaking ceremonies are held at New Bolton Center for the **Hospital and Large Animal Clinic** and for the **Dormitory-Conference Center**. The distinguished diggers shown here are (l to r) **Lawrence B. Sheppard**, **Clark W. Davis**, **Mrs. Charles E. Mather II**, **Dr. Ernest C. Deubler, V'11**, **Mrs. E. K. Tingley**, **Dr. Joseph W. Vansant**, **Mrs. Richard C. duPont**, **Dr. Robert L. Ticehurst, V'34**, **Dr. Benjamin Price**, and **Crawford C. Madeira**.

**I**n the late summer of 1962, “First Night Concerts” are held on the terrace of Allam House. A string quartet, members of the Philadelphia Orchestra, performs for an audience of community members and New Bolton Center staff – it is an outreach program arranged by Dean Allam to bring the Center and the community together.



Hospital construction site as it looks on June 6, 1962.

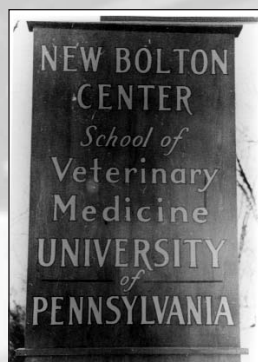
**Mastitis Research Laboratories** in the **James MacMillan Murphy Research Building**, dedicated in 1962 in memory of Dr. Murphy. The building is still used today as offices for members of the Department of Pathobiology.







In 1963, the Comparative Leukemia Studies Unit is established under the direction of **Dr. Robert R. Marshak** who joined the faculty in 1956. The work on bovine leukemia had begun in the late 1950s, with the identification and characterization of dairy cattle herds in which leukemia cases were occurring. The National Cancer Institute awards funds for construction of a bovine leukemia research facility and for acquisition of a Jersey herd with an exceptionally high incidence of leukemia. **Drs. Donald Abt, V'61**, and **Douglas C.D. Hare** are leading members of the research team.



In the 1970s, under the direction of **Dr. Jorge Ferrer**, researchers at the Comparative Leukemia Studies Unit identify and characterize the bovine leukemia virus.





The **Hospital and Clinic for Large Animals**, dedicated in 1964. The cost of the building is \$900,000. At the time of the dedication, \$830,000 has been raised from private donations. The hospital has a general surgery and special surgery suites. In the latter, the operating table moves on rails, weighs 3,000 lbs. and can be tilted. The custom-designed table can accommodate a 1,000 lb. animal.



General Surgery.

**Mary Ruth Hammond**, OR nurse.

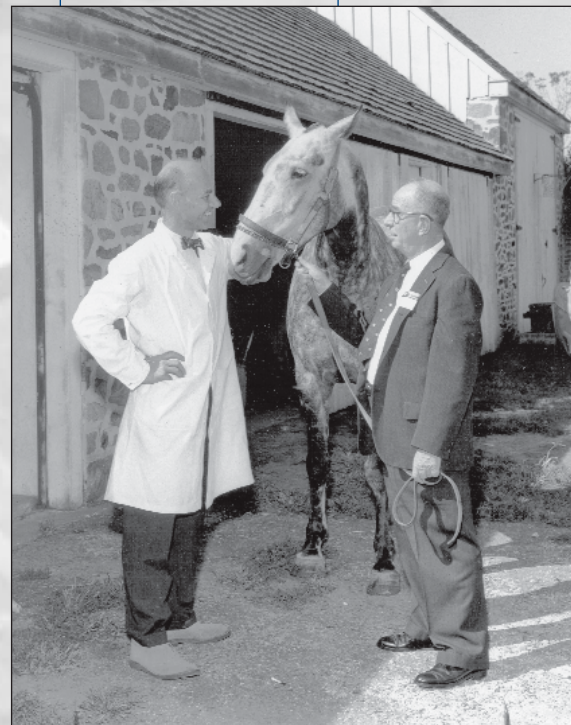






Cafeteria in the **Alumni House** – it hasn't changed much.

**Dr. Jacques Jenny and Lawrence B. Sheppard.**



The **Alumni House and Vansant Dormitory**, dedicated in 1965. The cost of the building is \$340,000.

The barns at New Bolton Center are built with the help of a construction crew from Hanover Shoe Farms, kindly provided by **Lawrence Sheppard**. Toward the end of the construction, unions threaten to picket the University over the non-union laborers used in building the barns. The Hanover Shoe Farms crew is withdrawn and the barns are finished by union workers. The four buildings can accommodate 24 bovine and 45 equine patients.





Dr. Raker teaching.



In 1968, through a bequest, Mr. Sheppard endows the Lawrence Baker Sheppard Professor of Surgery at the School. It is the first ever endowed chair in any veterinary school. Dr. Charles Raker, V'42, is named the first Lawrence Baker Sheppard Professor of Surgery.



The Allam House is the site for many important social and fund-raising events. Shown here in 1968 are **Dr. Luther Terry**, former U.S. surgeon general, **Mrs. Allam**, and **Mr. Graham French**.



Jewel, an elephant from a small circus, is brought to New Bolton Center for treatment of a leg injury. She is kept in a sand paddock normally occupied by injured horses.



Dedication of the **Georgia and Philip Hofmann Center for Animal Reproduction**. Shown here are **Dean Mark Allam**, **Gaylord Harnwell**, president, University of Pennsylvania, **Mrs. Hofmann** and **Mr. Hofmann**.



**Dr. Robert Kenney** and the Hofmanns with one of their horses. **Georgia and Philip Hofmann**, both avid horse enthusiasts, had a long standing relationship with the School. Philip Hofmann served on the School's Board of Overseers and was chairman for a number of years.

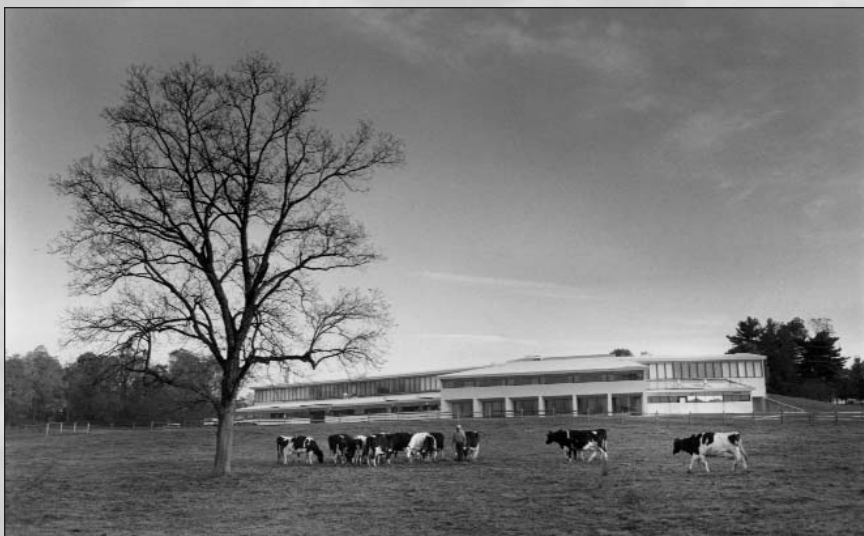


The Hofmanns make frequent visits to New Bolton Center, often arriving by helicopter. Here it is used for travel to Maryland, l to r, **Lila Allam**, **Gay Robinson**, **Jacques and Eleanor Jenny** and **Georgia Hofmann**.



The Hofmann Center.





The **Alarick Myrin Memorial Research Building** dedicated in 1973. Initially, the building contains research laboratories, the **Jean Austin duPont Library** and the **Moran Surgical Suite**. Now the building is home to the toxicology laboratory, the library, and the **Center for Animal Transgenesis and Germ Cell Research**.

The **Jean Austin duPont Library**



**Mark W. Allam** retires in 1973 and **Robert R. Marshak** is appointed dean.



**Alice Holton**, long-time librarian.

The C. Mahlon Kline Orthopedic and Rehabilitation Center was conceived by Jacques Jenny, considered the father of large animal orthopedic surgery.

Dr. Jenny envisioned a facility where complicated fractures could be repaired and where the animal could emerge from anesthesia without injuring itself. To that end, the operating room is equipped with a monorail that runs from the recovery stalls through the OR to the pool area and then to stalls in the adjacent barn and Intensive Care Unit.

The pool walls are recessed. When a horse emerges from anesthesia its natural reaction is panic and flight, leading to dangerous thrashing of limbs and possible re-injury. In the pool in the waterproof raft, it can move its legs and body without encountering a solid surface, thus preventing re-injury. Once awake the horse is hoisted from the raft and moved to the recovery stall where it can stand at once. New Bolton Center surgeons recover horses in the pool about 50 times each year – pool recovery has been invaluable for many patients.

Construction of the C. Mahlon Kline Orthopedic and Rehabilitation Center.

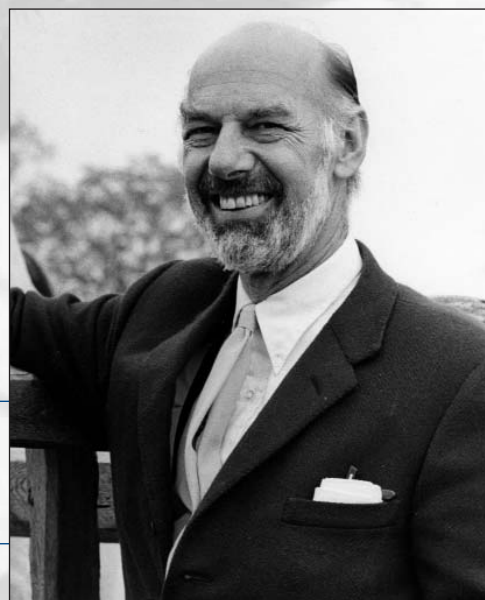


C. Mahlon Kline Center.



The operating room showing the adjustable table and the monorail.

Dr. Jenny who served on the faculty from 1948 until his death in 1971.





**George Pournaras**, regarded as one of the hospital's most gifted anesthesia technicians by Dr. Raker.

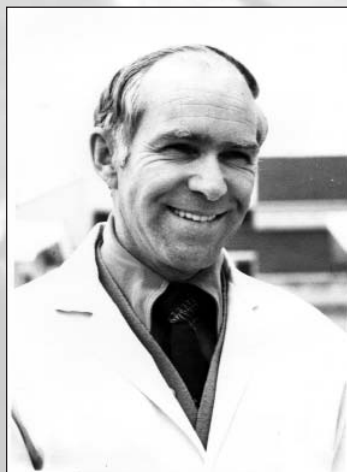


A horse being lifted from the recovery pool.

Operating room in the Kline Center.



**Dr. Lin V. Klein, VMD**.



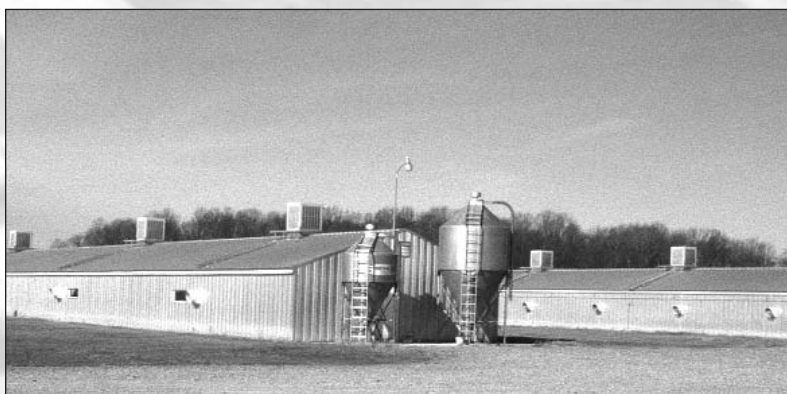
**Dr. Loren Evans.**

**Dr. Raker** uses a flexible endoscope.





In 1977, **David George Jones** and his wife **Marion Dilley Jones** establish **The Allam House Fund** to support and maintain the historic house. Shown here are **Dr. Mark Allam** and **Mr. Jones**.



The swine facility on Bird Road, it opened in 1979.

**J**une 14, 1979 is the first “New Bolton Center Day at Belmont Park.” Faculty members **Loren Evans**, **Richard A. McFeely, V’61**, **Charles Raker** and **Monica Reynolds** are available to answer horse owners’ and trainers’ questions during a reception and luncheon. “New Bolton Center Day at Belmont” is held every year until 1983.



**Dean Robert Marshak**, **Mark Allam** and **Charles Raker** with the New Bolton Center blanket awarded to the winner of the Belmont New Bolton Center Race in 1983.



The radiology equipment in the hospital in the late 1970s.



The equipment today



The need for more teaching space, outpatient clinic and offices in the Hospital and Clinic for Large Animals is recognized. The construction of the addition begins in the late 1970s.

Foundation digging for the addition.



The additions to the hospital.

The enlarged hospital is dedicated and renamed the George D. Widener Hospital for Large Animals in honor of Mr. Widener. The renovations were made possible by a \$1,050,000 gift from the Trustees of the Estate of George D. Widener.



A large number of guests attend the dedication ceremony

University President **Martin Meyerson** and **F. Eugene Dixon, Jr.**, chairman of the Trustees of the Estate of George D. Widener.



**Mr. Vincent B. Murphy, Jr.**, member of the School's Board of Overseers, and **Mrs. J. Maxwell Moran**.





Mrs. David Rockefeller  
and Mrs. Vincent Murphy.

Mrs. Joan F. Pew, Mrs. David Banks, members of the  
School's Board of Overseers, and Mr. Charles Wolf,  
chairman of the Board of Overseers.



Mrs. Samuel F. duPont, Dr. Raker,  
Almira and Hardie Scott.

Mrs. Grace Lambert.





A research team, headed by Dr. Benjamin Brackett, performed an in vitro fertilization. The fertilized egg was then implanted into a recipient cow and normal pregnancy followed. This work had significant impact on embryo transfer in livestock production.

**Virgil**, the first test tube calf, and his surrogate dam. Virgil is born at New Bolton Center on June 9, 1981.



The animal reproduction team in 1981. Standing: unknown, **Bruce Laidig**, **Richard McFeely**, **Paul Strzemienksi**, **Benjamin Brackett**, **Mark Cahoun**, **Marolo Garcia**; second row: **Lynne Klunder**, **John Hurtgen**, **Larue Manning**; first row: unknown, **Margie Cummings**, **Tracy Higgins**, **Daniel Bousquet**, **Debbie Fowler**, **Robert Kenney**, **Buddy Dreisbach**.



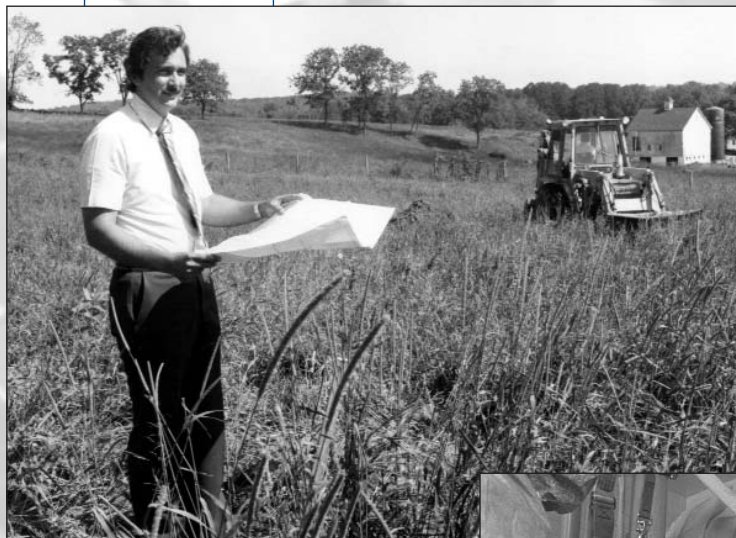


In the 1980s, New Bolton Center establishes a **dedicated nursing staff**. The nurses contribute to teaching and patient care. Today no one can imagine the hospital without its professional nursing staff.



**Dr. David Kronfeld** conducts extensive nutrition studies for food animals and working sled dogs.

**Barry Haines.**



In 1975, **Dr. John T. Alexander** uses the arthroscope for diagnostic purposes. He is the first veterinarian to apply this technology to veterinary medicine. His efforts are ridiculed by many in the profession.

In 1982, **Dean Richardson** begins using arthroscopy therapeutically. Today it is a common procedure for the removal of floating material from the joints of horses. Some arthroscopic procedures are even done routinely in standing horses, reducing the hospitalization and recovery time.







**Dr. Thomas Divers** develops parenteral nutrition to treat very young calves with bovine viral diarrhea. Others contributing to the projects are **Drs. David T. Galligan, V'81, Thomas Hansen** and **Raymond Sweeney, V'82**.



**Dr. Robert Whitlock** and an equine patient.

In 1983, the **Poultry Diagnostic Laboratory** identifies a virulent form of avian influenza in Pennsylvania. This is the second time such a virulent virus strain appears in Pennsylvania chickens. The first was in the 1920s when **Dr. Evan Stubbs, V'11**, identified the virus.

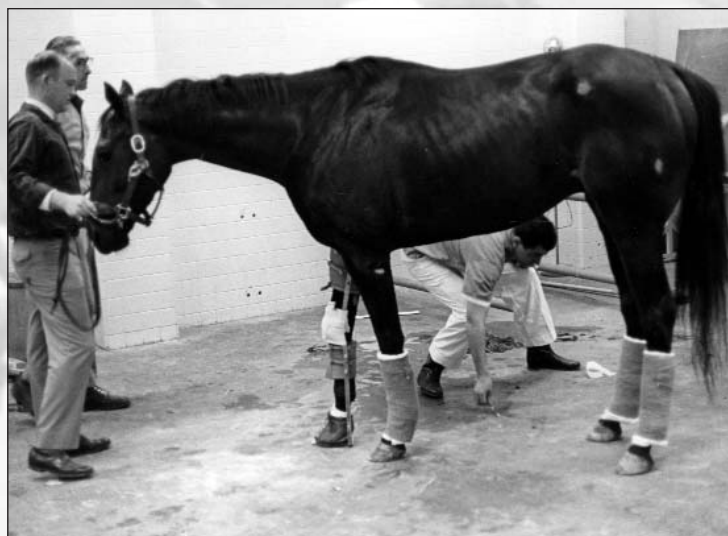




**Dr. Virginia Reef** implants a pacemaker into Bucky, a horse with heart rhythm disturbances. Bucky and Dr. Reef compete at the 1984 Devon Horse Show.

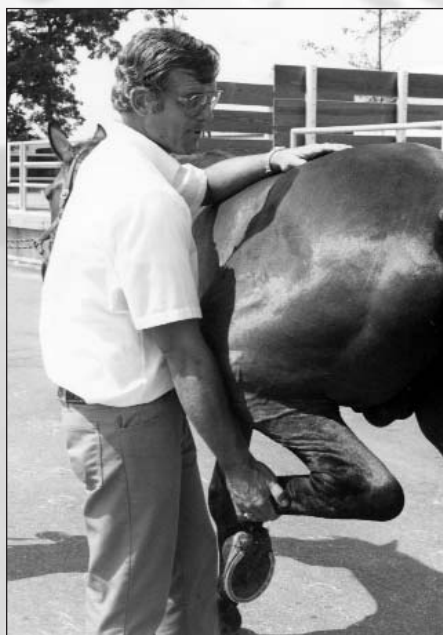


Site of the pacemaker.



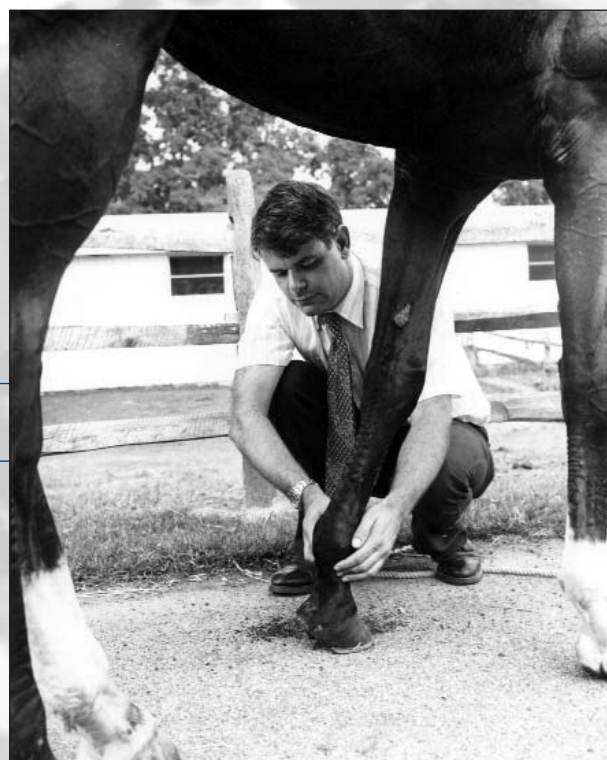
Around 1982, **Dr. David M. Nunamaker, V'68**, develops and begins to use an external fixator to stabilize a horse's leg after repair of a complicated fracture. Shown here is an early version. The device received a patent in 1986, and was repatented in 1996.

**D**rs. Moyer and Nunamaker receive the largest grant in Thoroughbred Racing history from the New York division of the Horsemen's Benevolent and Protection Association to study bucked shins and its relationship to racing/training surfaces.



**Dr. William A. Moyer.**

**Dr. David Nunamaker.**







A horse in the bucked shin study outfitted with monitoring devices.



**Dr. Wendy E. Vaala, V'80,** and a foal in the hospital's first neonatal ICU. The unit was established in one of the barns in 1984.



Another NICU patient.

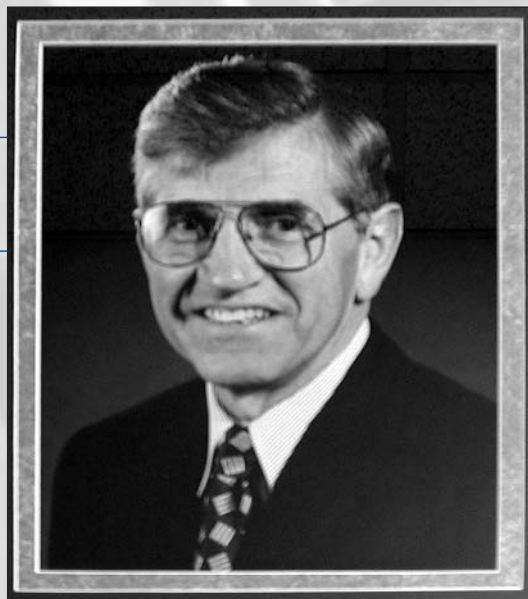
The **William B. Boucher Field Service Building** is constructed in 1985.



**Dr. Elaine P. Hammell, V'60.**

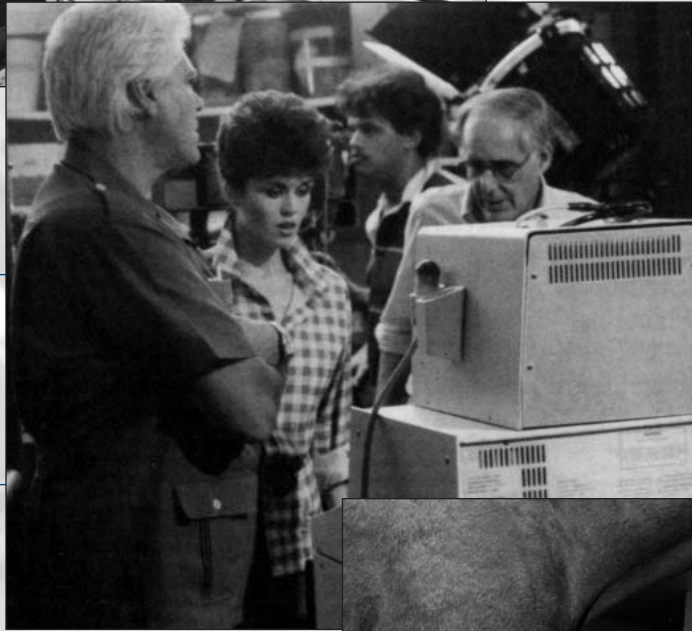


**Dr. Richard Bartholomew.**





Diagnostic ultrasound comes to New Bolton Center in 1985. **Dr. Virginia Reef** uses the diagnostic modality for cardiology patients and patients with suspected tendon problems. Dr. Reef has become a foremost expert in the application of diagnostic ultrasound.



“Ripley’s Believe It or Not” films at New Bolton; **Marie Osmond** narrates the segment about plate luting – it takes 10 hours and a crew of 30 to produce 2 minutes of programming.



**Dr. Benson B. Martin, Jr., V’80**, teaching.



**Dr. Colin Johnstone** and students.





Ground is broken for the **Connelly Intensive Care Unit/Graham French Neonatal Section** in 1985. **Christine Connelly** and **Anne Thorington** break the ground while **Charles Wolf**, chairman of the School's Board of Overseers, and **Dean Marshak** look on.



Rendering of the ICU. This is the finest building anywhere designed specifically for the critical care of large animals.

**Construction of the ICU.**





Dedication ceremonies in 1987.

Dean Edwin J. Andrews, V'67, Anne Thorington, Christine Connelly and University President Sheldon Hackney at the dedication.



The School participates in the Pennsylvania Hunt Cup carriage drives for more than 35 years with the last drive 1995. Shown here during the 1987 drive are Catherine Larmore, whip, Danny Campbell, groom, and Dean Andrews and Mrs. Andrews.



**Drs. Charles Reid** and **William Donawick** and Ringling Brothers Barnum and Bailey Circus' "unicorn" which comes to New Bolton in the middle of the night in May 1985 to be radiographed. It had been alleged to be a "fake," but the radiograph shows only one horn. Dr. Donawick takes the radiographs to a press conference at Madison Square Garden the next morning.



**Dr. Charles Raker** retires – he is honored during a dinner at the University Museum. Dr. Raker graduated from the Veterinary School in 1942, was in private practice in Norristown until 1950,

and then joined the faculty as assistant professor and director of clinics at Bolton Farm in Falsington. When New Bolton Center was acquired, he became



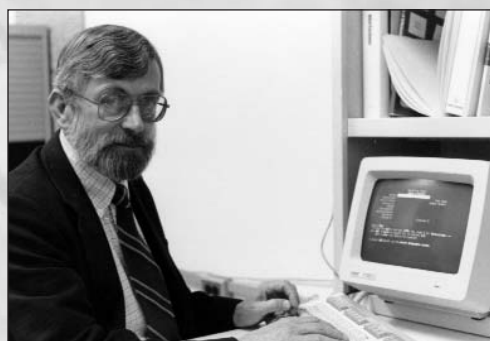
director of clinics there; in 1954 he was appointed head of the large animal clinic and two years later chairman of the department of surgery. Until the hospital opened at New Bolton, Dr. Raker spent most of his time at the Philadelphia campus. Dr. Raker is a charter member of the American College of Veterinary Surgeons and many of today's equine surgeons were trained by him. In 2000, the American Association of Equine Practitioners awarded him the "Distinguished Educator Award." He was honored for making a significant impact on the development and training of equine practitioners by developing the first internship program in equine medicine and surgery at Penn. Dr. Raker enjoys his retirement and comes to New Bolton Center at least once a week.



**Mark Allam** gives the **Stubbs family** a carriage ride.



**I**n 1986, the Center for Animal Health and Productivity (CAHP) is established. The Center has three main functions: graduate and residency training in animal health and productivity; development and refinement of a computerized diagnostic and herd health management information system; and field investigations and “on farm” applied research programs. In 1989, ground is broken for a new building which is completed in short order.



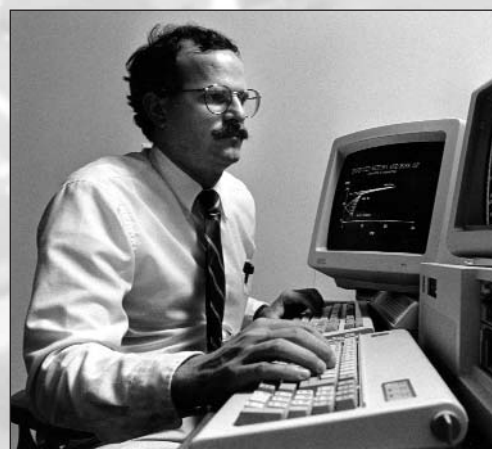
**Dr. Charles F. Ramberg, Jr., V'64**, director of CAHP at its inception.

**Dr. William Chalupa**, a member of CAHP, supervises a student in ration formulation.



Ground is broken for the Stubbs Laboratory. It is dedicated in 1988.

**Dr. Robert Eckroade, Dr. Evan Stubbs, Dr. Marshak, Dr. Max A. VanBuskirk, V'56.**



**Dr. David Galligan** of CAHP.



**I**n 1989, New Bolton Center had a Day at the Races in Saratoga. During the four years of this event almost \$250,000 was raised for research and equipment.

**Dr. Eric Tulleners** introduces laser surgery at New Bolton Center. The program is one of the first in a veterinary school.



1990 Day at the Races guests **Mrs. Sally Hill**, **Mrs. Betty Moran**, **Dean Andrews**, **Mrs. Annie Jones**, **Mrs. Bettina Jany**.



**Evelyn Huntingdon** retires in 1990. Evelyn came to New Bolton Center in 1966 to work in the admissions office. Evelyn was the “frontline” of the Widener Hospital. Since her retirement, Evelyn comes to NBC once a week to sell a great assortment of New Bolton Center hot and cold weather shirts to benefit the Center and the School.



**Dr. Lawrence Soma, V'57**, and **Dr. Corinne Sweeney** look at an equine bronchial tree.



**D**rs. Soma and Sweeney headed up a team that studied the effects of furosemide on the racing performance of horses. They determined that the diuretic improves performance in horses with exercise-induced pulmonary hemorrhage (EIPH). The paper published by the team created a stir in racing circles. Other members of the team were Drs. Susan J. Holcombe, V'90, Abby Maxson, V'90, Pamela Spencer, Joseph H. Thompson.

**I**n 1990 the Connelly  
Intensive Care Unit/  
Graham French Neonatal  
Section opens.



Intensive care unit, a group of stalls  
accessible by monorail.



Treatment area in the ICU.



Busy neonatal unit.

**Dr. Jonathan E. Palmer, V77,**  
checking a patient.







Inside the nursing station.



**Dr. Allam** offers Creme Fraiche champagne during the naming ceremonies for the nursing station in the ICU building – the Creme Fraiche Nursing Station. Creme Fraiche, owned by **Betty Moran**, won the Belmont Stakes in 1985. The gelding retired from racing in 1989 with winnings of \$4,024,721 in 64 starts.



Some other ICU patients.





Jeffords Treadmill.

In the summer of 1992, the long awaited Jeffords Treadmill opens. The 2,000 square foot building encompasses a large, two-story space, two stalls and a laboratory. The centerpiece is the high-speed treadmill, enclosed in “bullet-proof” polycarbonate; the treadmill can attain a speed of 37mph.



The Weaver Barn, located at the Hofmann Center, is renamed and dedicated the **Dorothy Russell Havemeyer Barn** in April 1992. The 19th century bank barn was renovated to house an equine reproductive and physiologic research facility.

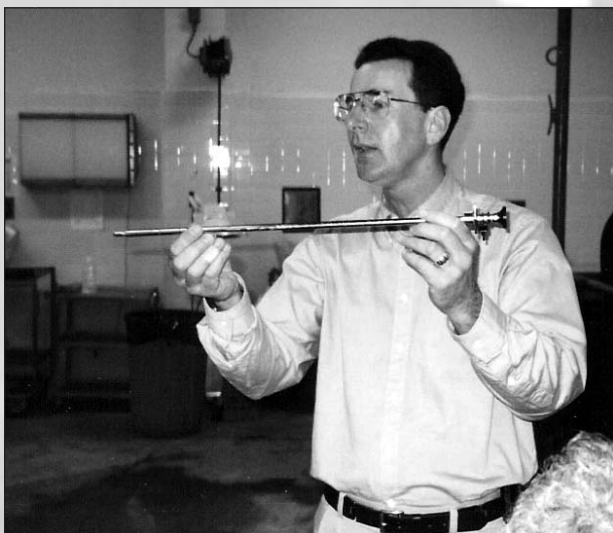


A quiet moment.

Members of the Section of Reproduction and Havemeyer Trustees: **Dr. Wolfgang Kähn, Dr. Robert Kenney, Gene Pranzo** and **Roy Tarlow**, trustees, Dorothy Havemeyer Foundation, **Dr. Sue McDonnell, Dr. Charles Love, Karen Sole, Dr. Richard McFeely, Dr. Patricia Sertich.**







**Dr. Eric Tulleners** shows a laparoscope, one of two added in the fall of 1992, to enhance the hospital's short procedure capabilities.

The Pennsylvania poultry industry, with funding from the Pennsylvania Department of Agriculture and the USDA, mounts a pilot program to reduce the number of eggs infected by *Salmonella enteritidis*. The Cooperative Poultry Diagnostic Laboratory at New Bolton Center is one of the study participants. Over the course of the study thousands of eggs are broken and cultured for the organism. Drs. Charles Benson, Robert Eckroade and Sherrill Davison participate in the Salmonella studies which over the years involve many aspects of Salmonella infection and methods of reducing or eradicating the organism from a farm. Based upon the extensive data collected at New Bolton Center the Salmonella Research Center (SRC) is established in 1996.

**Dr. Charles Benson.**



**Dr. Sherrill Davison.**

Nuclear scintigraphy is added to the diagnostic arsenal. The program is under the direction of **Dr. Michael Ross**. Shown here are Dr. Ross and **Kimberly Buchanan**.





**Mrs. Irene Landan** (l) and **Mrs. Beverly Ensor** present the check from An Evening in Old Saratoga to Dean Alan Kelly in 1994.



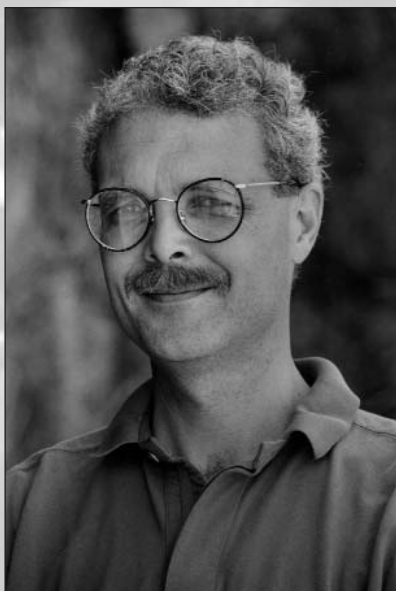
**Dr. William Boucher** dies in January of 1993. Dr. Boucher served on the faculty from 1940 until 1981. He served as chief of medical service, New Bolton Center, from 1967 until 1979. Beginning in 1940, and continuing until 1968, he was in charge of field service. He received the Lindback Award for Distinguished Teaching in 1981. In 1985, the School honored him by naming the field service the William B. Boucher Field Service.



**Mrs. Doris Boucher** is honored by the PVMA for her support of the Penn veterinary students. She and her husband opened their home to students – good food and lively discussion could be found at the Boucher home. Doris also baked and sold cookies with proceeds going to the Boucher Scholarship Fund.







In 1994, one of the diagnostic laboratories at New Bolton Center specializes in toxicology as part of the Pennsylvania Animal Diagnostic Laboratory System established by the Commonwealth. **Dr. Robert Poppenga**, a toxicologist, joins the faculty.



In September 1995, the School holds its first **Open House** in many years at New Bolton Center. The event is a huge success with close to 8,000 people attending. One of the main attractions is six-horse Percheron hitch. Shown here are **Mr. Rovenolt** (whip) and **LeRoy Bruce** on the passenger seat.



**Dr. Poppenga** explains poisonous plants to **Representative Joseph Pitts**.



**Dr. Richard McFeely** retires after 30 years at New Bolton Center. Dick McFeely joined the faculty in 1966 as assistant professor of animal reproduction. He was appointed full professor in 1975. From 1968 to 1973 he served as chief, Section of Reproduction, followed by two years as chief of staff for the

large animal hospital. In 1975, he was appointed director of the hospital, and in 1976, assistant dean for New Bolton; he served in those positions until 1987. During that period he also served as acting chair for Clinical Studies NBC for two years. Dr. McFeely received the Norden Distinguished Teaching Award in 1977 and was named PVMA Veterinarian of the Year in 1988.



**Rob Sigafos**, farrier at New Bolton Center, shows the Sigafos Polymer Shoes at the 1996 Open House.



During the summer of 1995, construction begins on Pennsylvania's first solar dairy.



**Pennsylvania Secretary of Agriculture Charles Brosius** addresses the guests, **Dean Kelly** and **University President Judith Rodin** in the background.



**Mr. Richard G. Wood**, Wawa, Inc., **Dean Kelly**, **Dr. Marshak**, **Angela M. Werley**, Pennsylvania Dairy Princess.



**Dr. Kelly**, **Mrs. Barbara Hafer**, State Treasurer, **Dr. Marshak** and **Dr. Allam**.

In October 1996 the **Marshak Dairy** is dedicated. The structure covers 35,000 square feet and includes free stalls, tie stalls, milking parlor, and offices. The dairy complex includes a heifer barn and a manure treatment and storage facility.





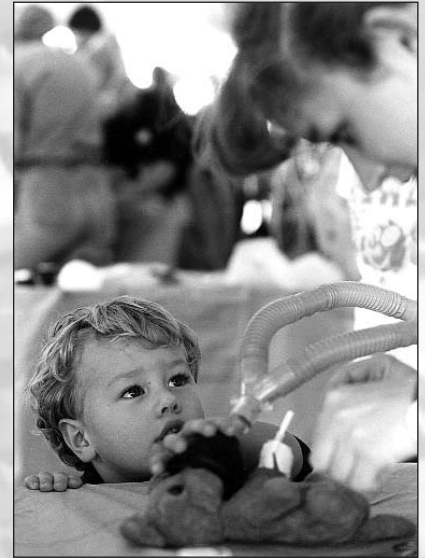


**Leroy Bruce**, New Bolton Center's farm manager since 1952, retires after 50 years of working for the University. In 1946, Leroy began his career as a farm employee at Bolton Farm where his father was farm manager. When he died, Leroy was appointed manager of Bolton Farm. He supervised the move to Chester County of the registered Guernsey dairy herd, farm equipment, and other possessions.



**I**n September 1997, the School becomes the beneficiary of the American Gold Cup. Mark and Lila Allam are honored.

George Pournaras is honored at his retirement party. Dr. Soma presents a plaque while Dr. Raker looks on.



In the M\*A\*S\*H Tent at the Gold Cup.



Fish farming arrives in 1998 at New Bolton Center. Fingerling hybrid striped bass are raised in specially constructed cages that are placed in the renovated and deepened Harnwell Pond. The program is part of a study funded by the Delaware River Port Authority. **Dr. Nunamaker** oversees the pond project.



**Dr. Charles Reid**, the first equine radiologist, retires. Dr. Reid came to Penn in 1963 as a research associate in radiology. He chaired the radiology department at New Bolton Center since 1981. Dr. Reid

is a revered teacher and he received the Lindback Award for Distinguished Teaching in 1978.



**I**n 1998, an anonymous alumni donor contributes \$600,000 for the renovation of the dormitory. Student rooms are rewired and refurbished, a new air conditioning/heating system is installed and the student kitchen is brought up-to-date. The building is ready for occupancy in early 1999.



**Lila and Mark Allam**, identified with New Bolton Center and its ascendancy as no other couple, die within a few weeks of each other in the spring of 1998.



In June 1998, the Richard S. Reynolds, Jr. Comparative Orthopedic Research Laboratory is dedicated. The new laboratory is named as a tribute to Richard S. Reynolds, Jr., a former University Trustee. Housed in a 2,800 square-foot addition to the C. Mahlon Kline Orthopedic and Rehabilitation Center, it includes a mechanical testing facility, a computer and microscope viewing room, a bone morphology unit and an orthopedic engineering and machine shop.

Attending the dedication are members of the Reynolds family, (l to r) Mrs. Julie Swords, Ms. Julia Swords, Mr. David Reynolds, Mrs. Dorothy Brotherton, shown here with Dr. Kelly and Dr. Nunamaker.



Judy Lloyd, research assistant, and Mrs. Georgiana Ducas and Mr. Glenn Pew look at histology equipment in the new laboratory.

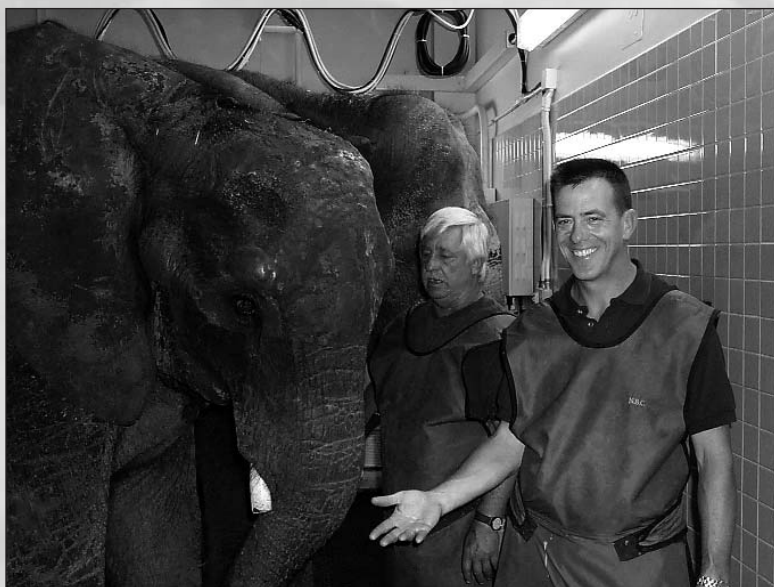
January 2000, Eric Tulleners dies. Eric did his surgical residency at New Bolton Center. Appointed a lecturer in 1981, he was promoted to assistant professor of surgery, becoming the Head of Food Animal Surgical Services in 1982. In 1986, Dr. Tulleners became the Head of the newly-founded Laser Surgical Services and in 1991, was named Chief of the Section of Surgery. He was named the Lawrence Baker Sheppard Associate Professor of Surgery in 1993, and attained the rank of Professor in 1998. Dr. Tulleners was a beloved and accomplished teacher and an endowed scholarship in his memory was established through contributions from faculty, residents and students.



In October 1998, the School dedicates the Margaret McGrath Rockefeller Laboratories in Animal Reproduction and the Marion Dille and David George Jones Laboratories in Animal Reproduction. The laboratories are major components of the School's Center for Animal Transgenesis and Germ Cell Research.



The New Bolton Center carriage, Bruce Rappoport, whip, and Dean and Mrs. Kelly, passengers for a carriage ride.



A group of elephants comes of New Bolton Center. The radiology room is just large enough to hold all three – the patient, a youngster, and her two constant companions, two adult elephants.

**Dr. Tom Parsons, V'86, State Senator Bell** and Associate Dean for New Bolton Center, **Bruce Rappoport** at the unit's open house.



Loose-housing area.

**A** new swine teaching and research facility opens in January 2001. The facility, a first of its kind in the U.S., incorporates novel technologies imported from Europe for animal comfort, animal feeding, and nutritional management.



A farrowing crate in raised position.



**G**round is broken for the Scott Equine Sports Medicine Building in March 2001.



Pat King, Leonard King, Herbert Moelis, Allaire duPont, Betty Moran, Ellen Moelis, Irene Landan, Roy Jackson, Gretchen Jackson.



Dr. Eric Birks explains building plans to Mrs. Elizabeth Moran.



Dr. Charles Raker, Allaire duPont, Ellen Moelis.



Herbert Moelis, Betty Moran, Christine Connelly

**T**he estate of Mrs. Georgia Hofmann, a well-known owner and breeder of Thoroughbred race horses, funded The Georgia E. and Philip B. Hofmann Professorship in Equine Medicine and Reproduction. Mrs. Hofmann died in November 1999 at the age of 91; her husband, Philip B. Hofmann, died in 1986.

Dr. James Orsini and Mrs. Kathleen Crompton.



Dr. Jill Beech, VMD is appointed the first Georgia E. and Philip B. Hofmann Professor in Equine Medicine and Reproduction.

**T**he Fairchild Aquaculture Laboratory is dedicated in April, 2002. The 2,500 square-foot building has 12-foot ceilings and is equipped with airhandling and exhaust systems to control airflow. It accommodates four groups of four 330-gallon tanks, each five feet in diameter and two feet deep. Each group of tanks has its own filtration and water system. There is also a small laboratory for on-site testing of water samples.

Mr. Alfonso Jackson, Minority Business Development Agency, US Department of Commerce, Dr. Leon Weiss, Mr. Robert Fairchild, Mr. Manuel Stamatakis near one of the tanks in the Fairchild Aquaculture Laboratory.



## June 29, 2002

**T**he Scott Equine Sports Medicine Building is dedicated and a gala dinner celebrating New Bolton Center's 50 year anniversary is held.

